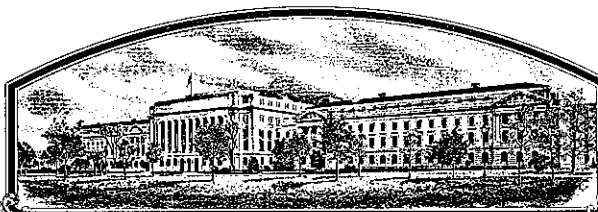


No.

8300022



THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Sakata Seed America, Inc.

Whereas, THERE HAS BEEN PRESENTED TO THE
Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED NOVEL VARIETY OF SEXUALLY REPRODUCED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF *eighteen* YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, IMPORTING IT, OR EXPORTING IT, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

VINCA ROSEA

'Little Salmon'



In Testimony Whereof, I have hereunto set
my hand and caused the seal of the Plant
Variety Protection Office to be affixed
at the City of Washington
this 27th day of February in
the year of our Lord one thousand nine
hundred and eighty-four.

Attest:

Kenneth H. Evans
Commissioner
Plant Variety Protection Office
Grain Division
Agricultural Marketing Service

John R. Block
Secretary of Agriculture

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
LIVESTOCK, MEAT, GRAIN & SEED DIVISION

FORM APPROVED: OMB NO.0581-0055

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

(Instructions on reverse)

No certificate for plant variety protection may be issued unless a completed application form has been received (5 U.S.C. 553).

1. NAME OF APPLICANT(S) Sakata Seed America, Inc.		2. TEMPORARY DESIGNATION 88A-M		3. VARIETY NAME Dwarf Little Salmon R/S 11/15/83	
4. ADDRESS (Street and No. or R.F.D. No., City, State, and Zip Code) 20th floor, Equitable Building 120 Montgomery Street San Francisco, CA 94104		5. PHONE (Include area code) (415) 421-8181		FOR OFFICIAL USE ONLY PVPO NUMBER 8300022	
6. GENUS AND SPECIES NAME Vinca Rosea L. or Catharanthus roseus G. Don.		7. FAMILY NAME (Botanical) Apocynaceae		FILING DATE 12/21/82 TIME 3:30 <input type="checkbox"/> A.M. <input checked="" type="checkbox"/> P.M.	
8. KIND NAME Vinca Rosea		9. DATE OF DETERMINATION October 1, 1981		AMOUNT FOR FILING \$ 1,000 DATE 12/21/82	
10. IF THE APPLICANT NAMED IS NOT A "PERSON," GIVE FORM OF ORGANIZATION (Corporation, partnership, association, etc.) Corporation				AMOUNT FOR CERTIFICATE \$ 500.00 DATE 1/26/84	
11. IF INCORPORATED, GIVE STATE OF INCORPORATION California				12. DATE OF INCORPORATION 1977	
13. NAME AND ADDRESS OF APPLICANT REPRESENTATIVE(S), IF ANY, TO SERVE IN THIS APPLICATION AND RECEIVE ALL PAPERS Junichi Obara, Vice President Sakata Seed America, Inc. 120 Montgomery Street, 20th floor San Francisco, CA 94104 MR. STAN ROWLIN 6802 ORCH DRIVE LAUREL, MD. 20707					
14. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED					
a. <input checked="" type="checkbox"/> Exhibit A, Origin and Breeding History of the Variety (See Section 52 of the Plant Variety Protection Act.) c. <input type="checkbox"/> Exhibit C, Objective Description of the Variety (Request form from Plant Variety Protection Office.) b. <input checked="" type="checkbox"/> Exhibit B, Novelty Statement d. <input checked="" type="checkbox"/> Exhibit D, Additional Description of the Variety					
15. DOES THE APPLICANT(S) SPECIFY THAT SEED OF THIS VARIETY BE SOLD BY VARIETY NAME ONLY AS A CLASS OF CERTIFIED SEED? (See Section 83(a) of the Plant Variety Protection Act.) <input type="checkbox"/> Yes (If "Yes," answer items 16 and 17 below) <input checked="" type="checkbox"/> No					
16. DOES THE APPLICANT(S) SPECIFY THAT THIS VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS? <input type="checkbox"/> Yes <input type="checkbox"/> No			17. IF "YES" TO ITEM 16, WHICH CLASSES OF PRODUCTION BEYOND BREEDER SEED? <input type="checkbox"/> Foundation <input type="checkbox"/> Registered <input type="checkbox"/> Certified		
18. DID THE APPLICANT(S) FILE FOR PROTECTION OF THE VARIETY IN THE U.S. OR OTHER COUNTRIES? <input type="checkbox"/> Yes (If "Yes," give names of countries and dates) <input checked="" type="checkbox"/> No					
19. HAVE RIGHTS BEEN GRANTED IN THE U.S. OR OTHER COUNTRIES? <input type="checkbox"/> Yes (If "Yes," give names of countries and dates) <input checked="" type="checkbox"/> No					
20. The applicant(s) declare(s) that a viable sample of basic seeds of this variety will be furnished with the application and will be replenished upon request in accordance with such regulations as may be applicable. The undersigned applicant(s) is (are) the owner(s) of this sexually reproduced novel plant variety, and believe(s) that the variety is distinct, uniform, and stable as required in Section 41, and is entitled to protection under the provisions of Section 42 of the Plant Variety Protection Act. Applicant(s) is (are) informed that false representation herein can jeopardize protection and result in penalties.					

SIGNATURE OF APPLICANT

DATE

SIGNATURE OF APPLICANT

DATE

Exhibit A:

ORIGIN AND BREEDING HISTORY OF THE VARIETY"VINCA DWARF" LITTLE SALMON

Purpose of Breeding: Vinca rosea L. is an annual well known for summer bedding purposes.

By accident, we found a dwarf mutation in a field of tall growing Vinca Rosea and using that as breeding material we later stabilized it, christening it as Little Pinkie and introduced it to the trade in 1956. (Little Pinkie is also known Little Coquette.) This was the first dwarf Vinca market and has replaced the tall varieties for bedding purposes. Thereafter, Little Pinkie was pollinated with other colors of Vinca Rosea Tall Growing varieties and an entirely new series, Little series, were introduced by our company over the years. Vinca Dwarf Little Series are known the world over and the following separate colors have been introduced:

<u>Name</u>	<u>Year</u>	<u>Color</u>
Little Pinkie	1956	Pink with deep center
Little Bright Eye	1959	White with deep rosy red throat
Little Delicata	1968	White with pink center
Little Blanche	1969	Pure White
Little Linda	1980	Deep Rose

In 1977, out of a large population of Little Linda grown for seed production, a single plant with light salmon rose was discovered. Thereafter, work was immediately started to introduce a new color to the Little Series.

Breeding object as follows:

- (1) To produce a Salmon color Dwarf Vinca suitable for bedding plant as well as pot plant with growing habit of 6 inches high, 12 inches spread to match other colors in the Vinca Little Series.
- (2) To breed same flowering season, flower size and floriferousness into this new color.
- (3) To produce seed with high germination and productivity to the same degree as Little Linda. To ensure a stable supply of seed.

Further breeding information to supplement above:

- (4) To develop a very bright and uniform salmon colored Dwarf Vinca which will withstand sunburn and grow and flower satisfactorily under hot summer sun.
- (5) Foliage of deep glossy green. Vigor ease in growing and disease resistance.

Selection: Selection work was carried out in Sakata's Chigasaki Breeding Station located southwest of Yokohama, Japan, both in open ground and in netted houses. Several generation of selection was carried out under the following procedure:

- (1) Sown in greenhouse in early May
- (2) Seedling transplanted on Middle of May
- (3) Late June plants were planted to open field.
- (4) Late July to early August. The best plants were selected from open ground and put up into 6 inch-pots and placed in netted houses.
- (5) Middle October - Open pollinated seeds were harvested from individual plants.

Exhibit A (Contd.)

~~"Vince Dwarf Little Salmon"~~

R/S 11/15/83

Seeds were saved from the single salmon-rose colored plant discovered in 1977 and they were grown and selected as mentioned before the following year.

From a fairly large number of plants, five plants with a salmon color not found in previous Vinca roseas fairly well established was found. From these five individual plants, seeds were harvested and kept separately.

In 1979, from five lines developed the best two lines were kept for further breeding and selection work. Out of the two strains selected, plants with light color, late flowering, irregular flower type and size, less vigor were carefully eliminated. From a fair number of the best plants further self selection work was continued.

In 1980, comparison trials of various lines was conducted, leaving only one best line which met all required specifications for distinctness, uniformity, and stability, and basic or foundation seed was harvested from this single line.

In 1981, further quality trials were carried out in Sakata's Northern Plant Breeding Station to determine its adaptability of varied environmental conditions, as well as for 4-inch pots and bedding plants. After careful and comprehensive trials, this variety prove to meet all specifications for distinctness, uniformity, and stability, and work on this variety was thus completed.

No variants were observed during the trials in 1981.

Stock seed increase was started immediately for further commercial production. This Variety was entered into the All-American Selections Trial in 1982.

RECEIVED

"LITTLE SALMON" COMPARED WITH OTHER LITTLE VINCAS



Dwarf Little Pinkie



Dwarf Little Delicata



Dwarf Little Linda



Dwarf Little Blanche



Dwarf "Little Salmon"



Dwarf Little Bright Eye

EXHIBIT B - NOVELTY OF VINCA - LITTLE SALMON

"Little Salmon" most closely resembles "Little Pinkie" except as follows:

1. The bloom of "Little Salmon" is salmon (RHS Chart No. 38A) with a deep salmon red center (RHS Color Chart No. 41B); whereas "Little Pinkie" is pink (RHS Color Chart No. 68C) with a deep red center (RHS Color Chart No. 57B) (See Photos attached.)
2. The foliage of " Little Salmon" is medium green (RHS Chart No. 141A); whereas, "Little Pinkie" is dark green (RHS Color Chart No. 135B).(See Photos Attached.)

EXHIBIT D - ADDITIONAL INFORMATIONVINCA - DWARF 'LITTLE SALMON'

'Little Salmon' is a new color never found in any previous Vinca rosea L. This color is salmon (RHS Color Chart No. 38A). It can be easily and readily distinguished from other varieties. Further details are listed below:

1. Flower size is 1- $\frac{1}{2}$ inches with an upright or erect growing habit and flowers throughout the entire summer season .
2. Plant height is 6 inches with a 12-inch spread, dwarf compact, basal branching plant.
3. Early and uniform in flowering season. Flowers in three months after sowing.
4. Not as resistant to sunburn compared to 'Little Pinkie'.
5. 'Little Pinkie' is just a bit more vigorous in growth than 'Little Salmon'.
6. 'Little Salmon' is just a trifle more susceptible to Virus than 'Little Pinkie'
7. 'Little Pinkie' is about two days earlier flowering than 'Little Salmon', both being classified as early flowering varieties.